

FORM PTO-1390 (Modified)  
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

**32114**

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

**10/030376**

INTERNATIONAL APPLICATION NO.  
**PCT/CZ00/00031**

INTERNATIONAL FILING DATE  
**9 May 2000**

PRIORITY DATE CLAIMED  
**10 May 1999**

TITLE OF INVENTION

**ARRANGEMENT OF ENTRANCE UNIT FOR PROTECTED AREAS**

APPLICANT(S) FOR DO/EO/US

**PROCHÁZKA, Zdenek**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

**Items 13 to 20 below concern document(s) or information included:**

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NUMBER

10/030376

PCT/CZ00/00031

32114

24. The following fees are submitted..

**BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5) ) :**

- ☒ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... \$1040.00
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... \$890.00
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$740.00
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$710.00
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00

**ENTER APPROPRIATE BASIC FEE AMOUNT =****CALCULATIONS PTO USE ONLY**

\$1,040.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	7 - 20 =	0	x \$18.00
Independent claims	1 - 3 =	0	x \$84.00
Multiple Dependent Claims (check if applicable)			<input type="checkbox"/>

\$0.00

\$0.00

\$0.00

**TOTAL OF ABOVE CALCULATIONS =**

\$1,040.00

☒ Applicant claims small entity status. See 37 CFR 1.27). The fees indicated above are reduced by 1/2.

\$520.00

**SUBTOTAL =**

\$520.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

\$0.00

**TOTAL NATIONAL FEE =**

\$520.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).

☐

\$0.00

**TOTAL FEES ENCLOSED =**

\$520.00

Amount to be:

refunded

\$

charged

\$

- a. ☒ A check in the amount of \$520.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-0522. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Thomas H. Van Hoozer, Reg. No. 32,761  
HOVEY, WILLIAMS, TIMMONS & COLLINS



23589

PATENT TRADEMARK OFFICE

SIGNATURE

Thomas H. Van Hoozer

NAME

32,761

REGISTRATION NUMBER

9 November 2001

DATE

20/2001

Došlo dne  
10-09-2001  
136  
Pořadové číslo .....

Applicant or Patentee <b>Zdeněk PROCHÁZKA</b>	Attorney's Docket No.
Serial or Patent No:	
File or Issued:	
For: <b>ARRANGEMENT OF ENTRANCE UNIT FOR PROTECTED AREAS</b>	

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) AND 1.27(b)) - INDEPENDENT INVENTOR**

As a below named inventor I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled described in

- ☒ the specification filed herewith
- ☐ application serial no. , filed
- ☐ patent no. , issued

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

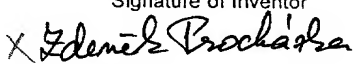
- ☒ no such person, concern or organization
- ☐ persons, concerns or organizations listed below\*

Name
Address
<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> SMALL BUSINESS CONCERN <input type="checkbox"/> NONPROFIT ORGANIZATION

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Inventor <b>Zdeněk PROCHÁZKA</b>	Name of Inventor	Name of Inventor
Signature of Inventor 	Signature of Inventor	Signature of Inventor
Date <b>September 7, 2001</b>	Date	Date

10/050376

JC10 RECEIVED 09 NOV 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: )  
 )  
PROCHÁZKA, ZDENEK )  
 )  
U.S. National Phase Application of )  
International Application )  
Serial No. PCT/CZ00/00031 )  
 )  
Filed: May 9, 2000 )  
 )  
Title: ARRANGEMENT OF ENTRANCE )  
UNIT FOR PROTECTED AREAS )

Hon. Assistant Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

Sir:

**PRELIMINARY AMENDMENT**

Please enter the following preliminary amendment prior to examination of this application on the merits:

**ABSTRACT**

Applicant submits herewith an abstract of the invention retyped on a separate page in conformance with U.S. practice. The abstract is taken from that appearing on the cover of the published international application.

**SPECIFICATION**

Please amend the specification as follows:

At page 1, line 2, please delete "Technical Field" and substitute therefor

- - BACKGROUND OF THE INVENTION

1. Field of the Invention - -;

At page 1, line 5, please delete "Background Art" and substitute therefor

- - 2. Description of the Prior Art - -;

At page 2, line 13, please delete "Disclosure of Invention" and substitute therefor

- - SUMMARY OF THE INVENTION - -;

At page 5, line 17, please delete "Brief Description of Drawings" and substitute therefor - - BRIEF DESCRIPTION OF THE DRAWINGS - -;

At page 5, after line 17, please insert - -

At page 5, line 21, please delete "Modes for Carrying Out the Invention" and substitute therefor - - DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

- -.

### **CLAIMS**

Please amend the claims to read as follows:

1. (Amended) An arrangement of an entrance unit for a protected area, comprising:

a discriminating unit having a first and second unit input and a first and second unit output;  
an electronic lock having an electronic lock input, said lock input being operatively connected to said first unit output;

a reading device for reading a carrier with an electronically-readable portion, said reading device having a reading device output operatively connected to said first unit output of the discriminating unit;

an access events memory having a first and second memory input and a first memory output, said first memory input being operatively connected to the second unit output of the discriminating unit;

an evaluation centre having a first and second centre input and a first, third and fourth center output, said second unit input being operatively connected to said third centre output;  
and

a user terminal for enabling a user to communicate any decrease in quality of the protected area to the evaluation centre, said user terminal having a first user terminal input and a first user terminal output, said first centre input being connected to said first user terminal output, said first centre output being connected to said first user terminal input, said second centre input being connected to said first access events memory output, and said fourth centre output being connected to said second access events memory input, wherein the evaluation centre may, responsive to a decrease in quality of the protected area, cancel the authorization for using the protected area to the carrier with an electronically-readable portion of the user who used the protected area on a previous occasion.

2. (Amended) The arrangement according to claim 1, further comprising a second centre output, a third unit input, and a monitoring terminal operatively connected to the second centre output and to the third unit input and operatively positioned therebetween.

3. (Amended) The arrangement according to claim 1, said user terminal further comprising a reading unit for reading of carriers with electronically-readable portions.

4. (Amended) The arrangement according to claim 1, said user terminal further comprising a second terminal output operatively connected to an auxiliary equipment input.

5. (Amended) The arrangement according to claim 2, said discriminating unit being operatively connected to at least one reading device and at least one lock, said access events memory being operatively connected to at least one discriminating unit, said evaluation centre being operatively connected to at least one discriminating unit and at least one access event memory, said monitoring terminal being operatively connected to at least one discriminating unit and to at least one evaluation centre.

6. (Amended) The arrangement according to claim 1, wherein connection of said lock input, said reading device output, said first user terminal input, and said first user

terminal output with said first and second unit input and said evaluation centre is provided via wireless link.

Please add the following new claim:

7. The arrangement according to claim 1, wherein said carrier with an electronically-readable portion is a smart card, chip card or magnetic card.

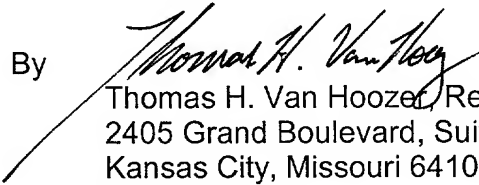
### **REMARKS**

Applicant submits herewith a Preliminary Amendment for entry prior to computation of the fee and examination of the application on the merits. The claims have been amended from that as currently presented in the international application under the Patent Cooperation Treaty to show amendments from the amended claims as contained in the annex. One new claim has been added. Applicant believes that the amendment submitted herewith conforms the application to U.S. practice and it is believed that the amendment to the claims place them in allowable form. In view of the favorable International Preliminary Examination Report, early passage of this application to allowance is courteously requested. Should the examiner have any questions which may be resolved by telephone conference, it is requested that the examiner contact applicant's attorney at 1-800-445-3460. Should this amendment necessitate any additional fees, the Assistant Commissioner is authorized to deduct the same from Deposit Account No. 19-0522.

Respectfully submitted,

HOVEY, WILLIAMS, TIMMONS & COLLINS

By

  
Thomas H. Van Hoozer, Reg. No. 32,761  
2405 Grand Boulevard, Suite 400  
Kansas City, Missouri 64108  
816/474-9050

(Docket No. 32114)

## ABSTRACT

In a protected area (1), equipped by an electronic lock (2) and by a reading device (3) of chip cards (4), connected to a discriminating unit (5), a user terminal (7) is located, which connected to an evaluation centre (6). The evaluation centre (6) is connected with an access events memory (9), with a discriminating unit (5) and with a monitoring terminal (8), while the access events memory (9) is also connected to the discriminating unit (5). This arrangement enables entrance into the protected area (1) only to authorized users, equipped by the pertinent chip card (4). This arrangement further enables the user, who ascertains damages, to transmit the report about discovered status via user terminal (7) into the evaluation centre (6), which compares time of change of the status in the protected area (1) with time of access events, stored in the access events memory (9), assigns responsibility for ascertained damages and eventually abolishes the right of access for the responsible persons by means of discriminating unit (5) and that all can occur without personal presence or performance of supervising staff.



10/030376

JC10 R380 PCT/PTC 09 NOV 2001

U.S. National Phase Application of  
International Application Serial No. PCT/CZ00/00031  
Inventor: Procházka, Zdenek  
Attorney Docket No. 32114

### **COPY OF PRELIMINARY AMENDMENT MARKED UP TO SHOW CHANGES MADE**

Please amend the specification as follows:

At page 1, line 2, please delete "Technical Field" and substitute therefor

- - BACKGROUND OF THE INVENTION

1. Field of the Invention - -;

At page 1, line 5, please delete "Background Art" and substitute therefor

- - 2. Description of the Prior Art - -;

At page 2, line 13, please delete "Disclosure of Invention" and substitute therefor

- - SUMMARY OF THE INVENTION - -;

At page 5, line 17, please delete "Brief Description of Drawings" and substitute therefor - - BRIEF DESCRIPTION OF THE DRAWINGS - -;

At page 5, line 21, please delete "Modes for Carrying Out the Invention" and substitute therefor - - DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT - -.

### **CLAIMS**

Please amend the claims to read as follows:

1. (Amended) An [A]rrangement of an entrance unit for a protected area, comprising:

a discriminating unit having a first and second unit input and a first and second unit output;  
an electronic lock [(2)] having an electronic lock input, [whose input is] said lock input being  
operatively connected to [the] said first unit output [(5.1)] of the discriminating unit  
[(5) and to];

[the first input (5.3) of the discriminating unit (5) is connected output of] a reading device  
[(3) of] for reading a carrier with an electronically-readable portion [chip cards (4)],  
said reading device having a reading device output operatively connected to said  
first unit input of the discriminating unit;

an access events memory having a first and second memory input and a first memory  
output, said first memory input being operatively [while the second output (5.2) is]  
connected to the [first input (9.1)] second unit output of the discriminating unit [of the  
access events memory (9), characterized by the fact that];

[said arrangement further comprises] an evaluation centre having a first and second centre  
input and a first, third and fourth centre output, said second unit input being  
operatively connected to said third centre output; and

a user terminal [(7)] for enabling a [the] user to communicate any decrease in quality of the  
protected area to the evaluation centre [(6)], said user terminal having a first user  
terminal input and a first user terminal output, said first centre input being connected  
to said first user terminal output, said first centre output being connected to said first  
user terminal input, said second centre input being connected to said first access  
events memory output, and said fourth centre output being connected to said  
second access events memory input, wherein the evaluation centre may,

responsive to a [that on the basis of the communication concerning the] decrease in quality of the protected area, cancel the authorisation for using the protected area to the carrier with an electronically-readable portion of the user who used the protected area [in] on a previous [case] occasion [and the first input (7.3) of the user terminal (7) is connected to the first output (6.3) of evaluation centre (6), while the third output (6.5) of the evaluation centre (6) is connected to the second input (5.4) of discriminating unit (5), fourth output (6.6) of the evaluation centre (6) is connected to second input (9.2) of the access events memory (9), while the second input (6.2) of the evaluation centre (6) is connected to the first output (9.3) of the access events memory (9)].

2. (Amended) The [A]arrangement according to claim 1, [characterized by the fact that the evaluation centre (6) is provided with] further comprising a second centre output [(6.4) and the discriminating unit (5) is provided with], a third unit input [(5.5) while between the second output (6.4) of the evaluation centre (6) and the third input (5.5) of the discriminating unit (5)], and a [an] monitoring terminal [(8) is] operatively connected to the second centre output and to the third unit input and operatively positioned therebetween.

3. (Amended) The [A]arrangement according to claim 1, [characterized by the fact that the] said user terminal [(7)] further comprising [is equipped by] a reading unit [(3')] for reading of carriers with an electronically-readable portions [chip cards (4)].

4. (Amended) The [A]arrangement according to claim 1, [characterized by the fact that the] said [second output (7.2) of the] user terminal [(7)] further comprising a second terminal output [is] operatively connected to [input of] an auxiliary equipment [(11)] input.

5. (Amended) The [A]arrangement according to claim 2, [characterized by the fact that the] said discriminating unit [(5)] being operatively [is] connected to at least one [or more] reading device[s] (3)] and at least one [or more] lock[s] (2)], said [the] access events memory [(9)] being operatively [is] connected to at least one [or more] discriminating unit[s] (5)], said [the] evaluation centre [(6)] being operatively [is] connected to at least one [or more] discriminating unit[s] (5)] and at least [to] one [or more] access event memory[ies] (9)], said [the] monitoring terminal [(8)] being operatively [is] connected to at least one [or more] discriminating unit[s] (5)] and to at least one [or more] evaluation[ing] centre[s] (6)].

6. (Amended) The [A]arrangement according to claim 1, [characterized by the fact that] wherein connection of [inputs and outputs of the] said electronic lock [(2)] input, said [the] reading device [(3) of chip cards (4)] output, said first user terminal input, and said [the] first user terminal [(7) with inputs and] output[s of the discriminating unit (5)] with said first and second unit input and said [the] evaluation centre [(6)] is provided via wireless link.

Please add the following new claim:

7. The arrangement according to claim 1, wherein said carrier with an electronically-readable portion is a smart card, chip card or magnetic card.

Arrangement of entrance unit for protected areas

#### Technical Field

The invention relates to an arrangement of entrance unit for protected areas where entrance is enabled for authorized users only.

#### Background Art

Up to this time the entrance to protected areas with limited access users was provided by opening of a door or barriers according to the content of a magnetic card. The content of magnetic card could be the same for all users, in that case the technical solution would be simple and would be composed of a magnetic card reading device, comparing circuit, comparing the code saved on the card with the only correct code and the lock, releasing the door into area protected against other persons' entrance. This way it would not be possible to watch utilisation of protected area by separate users.

In more advanced versions the distinguishing code, saved on a magnetic or chip card or on some other carrier, was different for separate users, then the simple comparing circuit was replaced by the circuit comparing the distinguishing code of the inserted card with all admissible codes, representing separate users. Connection was enhanced by access events memory, connected to the comparing circuit, and by the monitoring terminal, connected to access events memory. With this connection it was possible to survey the utilisation of protected area by separate users.

For areas utilised by a number of people with automatic open-up access however, the question of drawing consequences of damage responsibility which has arisen

in these areas comes out regularly.

Especially with larger numbers of persons, larger numbers of shared areas, larger distances among them and a higher possibility of various damage it is not economical to solve these problems by the presence of supervision authorities on the spot, or by personal participation in checking on protected areas state and by investigation of acknowledged damages.

Absence of supervision, at the same time automation of all-access areas, without attendance unbinds self-discipline of people and leads regularly to a higher rate of damaging of equipment, especially with broad systems with apparently anonymous entrance. For example lift cages, railroad carriages, trams, telephone kiosk, public toilets and other areas, open to the public. These economical losses can be limited by arrangement which is presented by this invention.

### Disclosure of Invention

The problem described above is solved by arrangement according to this invention, when the area, protected from access of unauthorised persons is accessible only over the barrier, released by an electronic lock, whose input is connected to the first output of discriminating unit and to its first input of discriminating unit is connected output of a distinguishing elements reading device e.g. chip card reading devices, which can serve as a distinguishing element and enable reading of the device to distinguish individual users asking for access into the protected area. Second output of discriminating unit is connected to the first input of access events memory, which stores sequence of access events inclusive of distinguishing code of individual users. Discriminating unit determines if the user, showing proof of his or her identity by certain distinguishing code, is authorised to access the protected area.

Principle of the invention is based on the fact that the arrangement is extended by

at least one user terminal and at least one evaluation centre in such a way, that the first output of the user terminal is connected to the first input of evaluation centre and the first input of the user terminal is connected to the first output of evaluation centre. The second output of the evaluation centre is connected to the third input of discriminating unit, the third output of the evaluation centre is connected to the second input of discriminating unit, fourth output of the evaluation centre is connected to second input of the access events memory, while the second input of the evaluation centre is connected to the first output of the access events memory.

Between the second output of the evaluation centre and the third input of discriminating unit a monitoring terminal can be connected.

The user terminal is accessible to users of protected area for example by its location in the protected area and enables the user to pass over a message about protected area state found, especially about found damages, and time when they were recognised and about the identity of the user to the evaluation centre.

The evaluation centre compares automatically the moments of state changes of the protected area with the moments of access events, stored in the access events memory and assigns distinguishing code of the user who is responsible for the state change of the protected area on the basis of reports, received from the user terminal. Users' distinguishing codes and probability of responsibility for state changes of protected area, is passed over by the evaluation centre to the monitoring terminal, where they can be displayed on the screen, or printed or saved into the memory and can serve for the supervision authority of operator as proposals to cancel the authorisation for entrance into the protected area for individual indicated users. For this reason, the output from the monitoring terminal can be driven to the input of the discriminating unit, providing a change of discriminating unit output value when asking for authorisation of the entrance of the user with inserted distinguishing code from the state "ADMITTANCE AUTHORISED" to "ADMITTANCE UNAUTHORISED".

The input of the discriminating unit can be connected with the output of the evaluation centre via the monitoring terminal or directly. The direct connection is useful for automatic operation.

The user terminal, which enables passing over reports of the state of the protected area, of the moment of reported state found and entering user identity, is equipped by the reading device of distinguishing elements to its advantage.

The user terminal is to its advantage equipped with an display of summary of the complex protected area known state in the same moment, displaying for example in priority some items of the protected area state, which are more frequently used and that is why its input is connected with the evaluation centre output.

The user terminal is to its advantage joint with an control station on other auxiliary equipment, located inside the protected area, for example air-conditioning, radio, copier machine etc, which are interconnected to it for passing commands over.

The evaluation centre, which in the base of reports received from the user terminal compares automatically moments of state changes of protected area with moments of access events stored in the access events memory, and determines the distinguishing code of user who is suspected for causing the change of the state of the protected area and assigns the probability of responsibility to it. With advantage the responsibility is spread over several users during evaluation of one event. Past events connected to one user may influents the probability of responsibility during evaluation of following events. Because of passing over the inquiries and requests concerning details of access events the output of the evaluating centre is connected to the access events memory input and answers are passed over from access events memory output to the input of the evaluation centre.

The discriminating unit can be connected with more reading devices and more locks, which can be fixed to door of one but also to more different protected areas.

Access events memory can be connected with more discriminating units.

The evaluation centre can be connected with more discriminating units and more memories of accesses, the monitoring terminal can be connected with more discriminating units and more evaluation centres.

The evaluation centre can be to its advantage common for more protected areas, or more user terminals.

Protected area is to its advantage the inner area of a car, lift, building, room of telephone kiosk, cash dispenser, laundry, room of Official Secrets Acts, etc..

Connection between outputs and inputs of separate units of the circuit is to its advantage provided by something other than a solid connection, i.e. by a wireless link.

The main advantage of this arrangement is in quicker and easier messages transfer referring about protected area damage and its equipment, responsibility assessment for damage and/or occasional abolishment of access rights to users responsible for protected area damage, this can all occur without personal presence or performance of supervising staff.

#### Brief Description of Drawings

The invention is, in the following, described further on an example of an embodiment by means of a drawing on which the scheme shows the arrangement of entrance unit to protected area.

#### Modes for Carrying Out the Invention

Drawing shows a protected area 1 with door, released by electronic lock 2, whose entrance is connected to the first output 5.1 of discriminating unit 5. To the first

input 5.3 of discriminating unit 5 is connected output of reading device 3 of chip cards 4. Second output 5.2 of discriminating unit 5 is connected with the first input 9.1 of access events memory 9.

In the protected area 1 an user terminal 7 is located, the first output 7.1 of which is connected to the first input 6.1 of evaluation centre 6, while its first input 7.3 is connected to the first output 6.3 of evaluation centre 6. Second output 6.4 of evaluation centre 6 is connected to input 8.1 of the monitoring terminal 8, the third output 6.5 is connected to second input 5.4 of discriminating unit 5, the fourth output 6.6 is connected to second input of 9.2 of access events memory 9, while the second input 6.2 of evaluation centre 6 is connected to the first output 9.3 of access events memory 9. Output 8.2 of monitoring terminal 8 is connected to the third input 5.5 of discriminating unit 5. Second output 7.2 of user terminal is connected to the input of auxiliary device 11.

Following example of an embodiment of the invention does not limit the scope of the protection.

Shared automobiles of transport club are fitted by electronic door lock 2. Inner area of each vehicle is the protected area 1, which can not be entered off the door, operated by electronic lock 2. Reading device 3, located on the vehicle, distinguishes individual users according to chip cards 4, which are delivered to the members by Transport club Centre. With inserting the card 4 into reading device 3 this notifies distinguishing code of inserted card via radio link to discriminating unit 5, located in the club centre.

Discriminating unit 5 identifies, if asking user is authorised to use the vehicle and if so, it unlocks door lock 2 via the radio link and simultaneously passes over access event into access events memory 9, located also in the club centre.

In every car there is an user terminal 7 located in the form of display with touch-screen, which displays car state, compiled according to previous users messages and enables the new user to set-up investigated real state.



If the new user discovers, that in the car faults existing contrary to the displayed known state (amount of dirt, damaged upholstery, non functional air conditioning etc), he will set-up new investigated facts by means of user terminal via radio connection to the evaluation centre 6, located in the centre of the club connected to access events memory 9.

The evaluation centre 6 looks up previous access event in access events memory 9 and will cancel the authorisation for using club vehicle to user who used the vehicle in previous case by the storing to proper input 5.4 of discriminating unit 5, to which is its output 6.5 connected. Simultaneously this decision is passed over to the input 8.1 of monitoring terminal 8, to which is the output 6.4 of evaluation centre connected. The monitoring terminal 8, located in the centre of the club can be for example a personal computer with a printer.

The user terminal 7 serves simultaneously as a control station of auxiliary equipment 11 of the car (air conditioning, engine, radio etc.). It is equipped by reading device 3' of chip cards 4, which serves as confirmation of the presence of a certain user with setting up the state of protected area 1. Discriminating unit 5, evaluation centre 6, access events memory 9, monitoring terminal 8, which are located in the centre of the club, are common for all club cars.

## CLAIMS

1. Arrangement of entrance unit for protected area, comprising an electronic lock (2) whose input is connected to the first output (5.1) of the discriminating unit (5) and to the first input (5.3) of the discriminating unit (5) is connected output of reading device (3) of chip cards (4), while the second output (5.2) of the discriminating unit (5) is connected to the first input (9.1) of the access events memory (9), **characterized by the fact** that said arrangement further comprises an user terminal (7), the first output (7.1) of which is connected to the first input (6.1) of evaluation centre (6) and the first input (7.3) of the user terminal (7) is connected to the first output (6.3) of evaluation centre (6), while the third output (6.5) of the evaluation centre (6) is connected to the second input (5.4) of discriminating unit (5), fourth output (6.6) of the evaluation centre (6) is connected to second input (9.2) of the access events memory (9), while the second input (6.2) of the evaluation centre (6) is connected to the first output (9.3) of the access events memory (9).

2. Arrangement according to claim 1, **characterized by the fact** that the evaluation centre (6) is provided with second output (6.4) and the discriminating unit (5) is provided with third input (5.5) while between the second output (6.4) of the evaluation centre (6) and the third input (5.5) of the discriminating unit (5) an monitoring terminal (8) is connected.

3. Arrangement according to claim 1, **characterized by the fact** that the user terminal (7) is equipped by a reading unit (3') of chip cards (4).

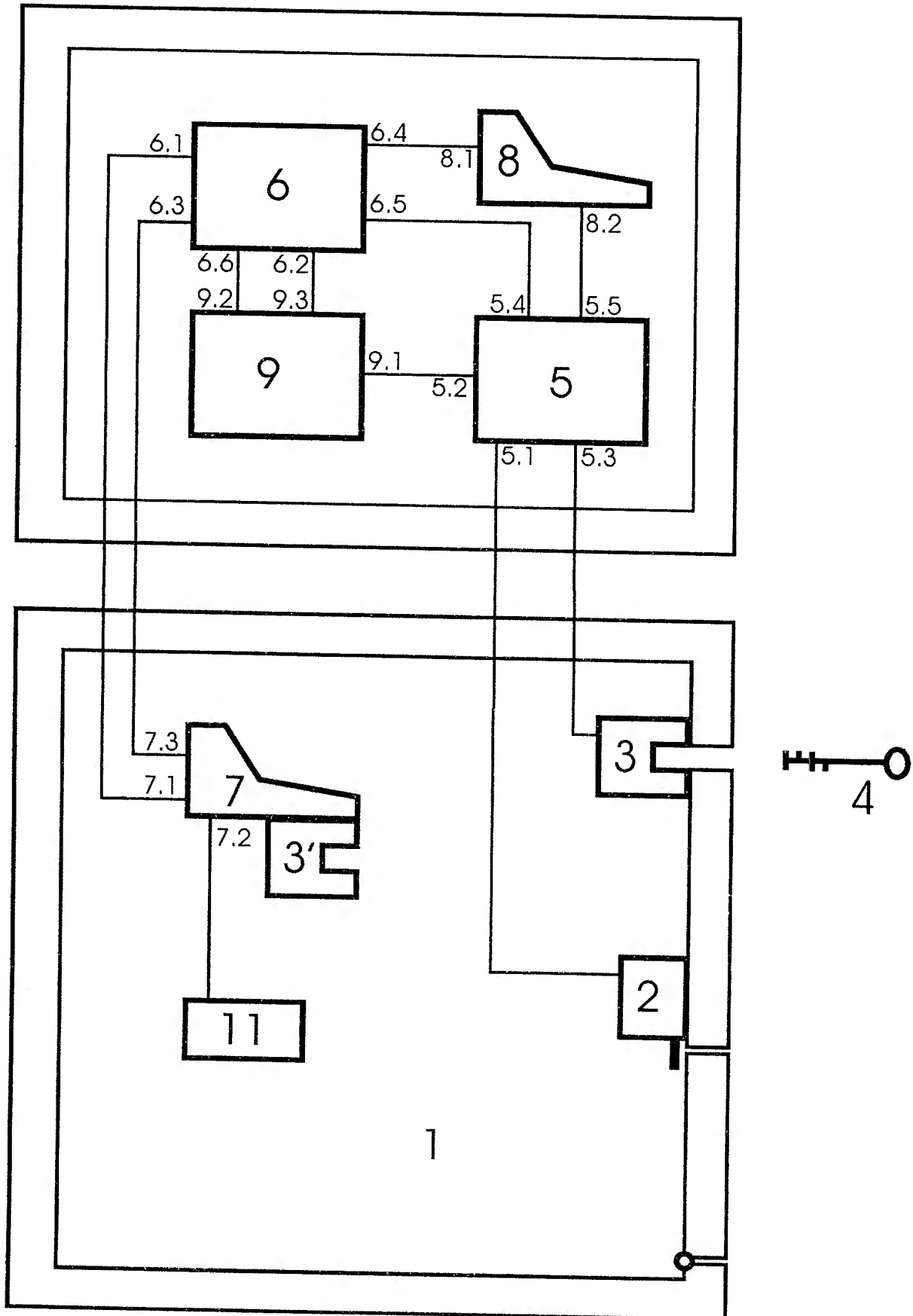
4. Arrangement according to claim 1, **characterized by the fact** that the second output (7.2) of the user terminal (7) is connected to input of an auxiliary equipment (11).

5. Arrangement according to claim 2, **characterized by the fact** that the discriminating unit (5) is connected to one or more reading devices (3) and one or more locks (2), the access events memory (9) is connected to one or more discriminating units (5), the evaluation centre (6) is connected to one or more discriminating units (5) and one or more access events memories (9), the monitoring terminal (8) is connected to one or more discriminating units (5) and to one or more evaluating centres (6).

6. Arrangement according to claim 1, **characterized by the fact** that connection of inputs and outputs of the electronic lock (2), the reading device (3) of chip cards (4) and the user terminal (7) with inputs and outputs of the discriminating unit (5) and the evaluation centre (6) is provided via wireless link.



10/030376



COMBINED DECLARATION AND POWER OF ATTORNEY  
(Original, Design, National Stage of PCT  
or CIP Application)

ATTORNEY'S DOCKET NO.

As a below named inventor hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ARRANGEMENT OF ENTRANCE UNIT FOR PROTECTED AREAS

the specification of which: complete (a), (b) or (c) for type of application)

REGULAR OR DESIGN APPLICATION

(a) ☐ is attached hereto

(b) ☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

PCT FILED APPLICATION ENTERING NATIONAL PHASE

(c) ☒ was described and claimed in International Application No. PCT/CZ00/00031 filed 9 May 2000 and as amended on \_\_\_\_\_ (if any).

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

☐ In compliance with this duty there is attached an information disclosure statement. 37 CFR 1.97.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: (complete (d) or (e))

(d) ☐ no such applications have been filed.

(e) ☒ such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS PRIOR TO SAID APPLICATION

Country	Application No.	Date of Filing	Date of Issue	Priority Claimed
Czech Republic	PV 1655-99	10 May 1999		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
				YES <input type="checkbox"/> NO
				<input type="checkbox"/> YES <input type="checkbox"/> NO

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS PRIOR TO SAID APPLICATION


PROVISIONAL

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States application(s) listed below:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
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CONTINUATION-IN-PART

Complete This Part Only If This Is A Continuation-In-Part Application)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a), which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
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POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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